

REMARKS

Claims 3-11, 14, 16-21, 25, 28, 31-38, 40, 43, and 44 of the parent case were finally rejected under 35 U.S.C. §102(b) as being anticipated by US Pat. 5,365,929 (Peterson), a rejection which was sustained by the Examiner. The claim set of this continuation has been reduced and clarified to clearly distinguish over Peterson and the other citations of record in the parent case. It can be seen that in Peterson the Doppler data from a plurality of sample volumes is monitored, and the one which best matches a criterion set by the user, such as greatest Doppler signal power, is displayed to the user. Alternatively, a plurality of spectral Doppler displays from the different sample volumes are produced and the one which best satisfies the user's criterion is highlighted. In another embodiment the sample volume being displayed is indicated to the user in an anatomical display.

It is seen that there is no optimization of spectral Doppler display parameters in Peterson. Peterson simply identifies the spectral display which best meets the selected criterion, then displays it without optimization. There is no optimization of spectral displays such a velocity range, PRF, baseline position, or baseline inversion in Peterson. There is no analysis of spectral Doppler information for optimization of the display parameters of the PRF, the color baseline, the color range polarity, or the range of color pixel values of an anatomical Doppler display; there is no anatomical Doppler display in Peterson. There is no analysis of Doppler M-mode signal information in Peterson. There is no analysis of a trace of spectral Doppler information in Peterson, and spectral Doppler tracing is not mentioned in Peterson.

For all of the foregoing reasons it is respectfully submitted that the claims of this continuation application

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are in condition for allowance. Favorable  
reconsideration is respectfully requested.

Respectfully submitted,

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